

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) **SDG** MF2A35 **Case** 43795 **Contract** EPW09039 **Region** 6 **DDTID** 183659 **SOW** ISM01.3

Data Review Reports

Blanks

Blanks	ICP_AES
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	PBS57
	Calcium PBS57
Blanks	ICP_AES
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	PBS57
	Calcium PBS57
Blanks	ICP_AES
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS57, MF2A35, MF2A35D, MF2A35L, MF2A36, MF2A38
	Calcium LCS57, MF2A35, MF2A35D, MF2A35L, MF2A36, MF2A38
Blanks	ICP_AES
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS57, MF2A35, MF2A35D, MF2A35L, MF2A36, MF2A38
	Calcium LCS57, MF2A35, MF2A35D, MF2A35L, MF2A36, MF2A38
Blanks	ICP_AES
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS57, MF2A35, MF2A35D, MF2A35L, MF2A36, MF2A38
	Calcium LCS57, MF2A35, MF2A35D, MF2A35L, MF2A36, MF2A38

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) SDG MF2A35 Case 43795 Contract EPW09039 Region 6 DDTID 183659 SOW ISM01.3

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Blanks

Blanks	ICP_MS
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF2A35L, MF2A35, MF2A35D, MF2A36, MF2A38, PBS62
	Cobalt MF2A35L
	Beryllium MF2A35, MF2A35D, MF2A36, MF2A38
	Antimony MF2A35, MF2A35D, MF2A35L, MF2A36, PBS62
Blanks	ICP_MS
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	MF2A35L, MF2A35, MF2A35D, MF2A36, MF2A38, PBS62
	Arsenic MF2A35L
	Cobalt MF2A35L
	Beryllium MF2A35, MF2A35D, MF2A36, MF2A38
	Antimony MF2A35, MF2A35D, MF2A35L, MF2A36, PBS62
	Cadmium MF2A35, MF2A35D, MF2A35L, MF2A36, MF2A38
	Silver MF2A35, MF2A35D, MF2A36, MF2A38
Blanks	ICP_MS
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS62, MF2A35, MF2A35D, MF2A35S, MF2A36, MF2A38, MF2A35A
	Cobalt LCS62, MF2A35, MF2A35D, MF2A35S, MF2A36, MF2A38
	Beryllium LCS62, MF2A35S
	Antimony LCS62, MF2A35A, MF2A35S
	Thallium LCS62, MF2A35S
Blanks	ICP_MS
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS62, MF2A35, MF2A35A, MF2A35D, MF2A35L, MF2A35S, MF2A36, MF2A38
	Arsenic LCS62, MF2A35, MF2A35A, MF2A35D, MF2A35L, MF2A35S, MF2A36, MF2A38
	Cobalt LCS62, MF2A35D, MF2A35L, MF2A35S, MF2A36, MF2A38

National Functional Guidelines Report #03

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Data Review Reports

Blanks

Blanks	ICP_MS
	Barium LCS62 , MF2A35 , MF2A35D , MF2A35L , MF2A35S , MF2A36 , MF2A38
	Beryllium LCS62 , MF2A35S
	Antimony LCS62 , MF2A35A , MF2A35S
	Thallium LCS62 , MF2A35S
	Cadmium LCS62 , MF2A35S
	Silver LCS62 , MF2A35S
	Lead MF2A35 , MF2A35D , MF2A35L , MF2A35S , MF2A36 , MF2A38
Blanks	ICP_MS
NE04	The following samples have analyte results greater than or equal to MDLs but less than or equal to CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF2A35, MF2A35D, MF2A36
	Antimony MF2A35 , MF2A35D , MF2A36
Blanks	ICP_MS
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS62, MF2A35A, MF2A35S
	Antimony LCS62 , MF2A35A , MF2A35S

National Functional Guidelines Report #03

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Data Review Reports

Detection Limit

Detection Limit	Hg
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF2A36, MF2A38
	Mercury MF2A36 , MF2A38

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories) **SDG** MF2A35 **Case** 43795 **Contract** EPW09039 **Region** 6 **DDTID** 183659 **SOW** ISM01.3

Data Review Reports

Detection Limit

Detection Limit	ICP_AES
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF2A35L, MF2A36, PBS57, MF2A35, MF2A35D, MF2A38
	Sodium MF2A35L , MF2A36
	Calcium PBS57
	Potassium MF2A35 , MF2A35D , MF2A35L , MF2A38
	Magnesium MF2A35 , MF2A35L

National Functional Guidelines Report #03

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Data Review Reports

Detection Limit

Detection Limit	ICP_MS
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF2A35, MF2A35D, MF2A35L, MF2A36, MF2A38, PBS62
	Vanadium MF2A35 , MF2A35D , MF2A35L , MF2A36 , MF2A38
	Arsenic MF2A35L
	Chromium MF2A35L
	Cobalt MF2A35L
	Nickel MF2A35L
	Beryllium MF2A35 , MF2A35D , MF2A36 , MF2A38
	Antimony MF2A35 , MF2A35D , MF2A35L , MF2A36 , PBS62
	Cadmium MF2A35 , MF2A35D , MF2A35L , MF2A36 , MF2A38
	Copper MF2A35L , MF2A36
	Silver MF2A35 , MF2A35D , MF2A36 , MF2A38

National Functional Guidelines Report #03

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Data Review Reports

Duplicates

Duplicates	Hg
NI03	The following Duplicate and original sample results are greater than 5xCRQL and RPD is greater than 20. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF2A35, MF2A36, MF2A38
	Mercury MF2A35D

National Functional Guidelines Report #03

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Data Review Reports

Duplicates

Duplicates	ICP_AES
NI03	The following Duplicate and original sample results are greater than 5xCRQL and RPD is greater than 20. The original sample results are greater than or equal to MDLs. Detected analytes are qualified J. Nondetected analytes are qualified UJ.
	MF2A35, MF2A36, MF2A38
	Calcium MF2A35D
	Manganese MF2A35D

National Functional Guidelines Report #03

Lab MITKEM(Mitkem Laboratories)
 SDG MF2A35
 Case 43795
 Contract EPW09039
 Region 6
 DDTID 183659
 SOW ISM01.3

Data Review Reports

Holding Times/Preservation

Holding Times/Preservation	Hg
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2A35, MF2A35D, MF2A35S, MF2A36, MF2A38

National Functional Guidelines Report #03

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Data Review Reports

Holding Times/Preservation

Holding Times/Preservation	ICP_AES
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2A35, MF2A35D, MF2A35L, MF2A35S, MF2A36, MF2A38

National Functional Guidelines Report #03

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 SDG MF2A35
 Case 43795
 Contract EPW09039
 Region 6
 DDTID 183659
 SOW ISM01.3

Data Review Reports

Holding Times/Preservation

Holding Times/Preservation	ICP_MS
NHT01	The following preserved samples are improperly maintained at temperatures outside the range of 4+/-2 C. Detected analytes with results greater than or equal to MDLs are qualified J-. Use professional judgment to qualify the nondetected analytes.
	MF2A35, MF2A35A, MF2A35D, MF2A35L, MF2A35S, MF2A36, MF2A38

National Functional Guidelines Report #03

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Data Review Reports

Matrix Spikes

Matrix Spikes	ICP_MS
NG08	The following Matrix Spike samples have percent recoveries less than 30% and post-digestion spike samples have percent recoveries greater than or equal to 75%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are qualified UJ.
	MF2A35, MF2A36, MF2A38
	Antimony MF2A35S
Matrix Spikes	ICP_MS
NG14	The following Matrix Spike samples have percent recoveries greater than 125% and post-digestion spike samples have percent recoveries less than or equal to 125%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are not qualified.
	MF2A35, MF2A36, MF2A38
	Arsenic MF2A35S

National Functional Guidelines Report #03

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Data Review Reports

Serial Dilution

Serial Dilution	ICP_AES
NL031	The following ICP-AES Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UJ.
	MF2A35, MF2A36, MF2A38
	Magnesium MF2A35L